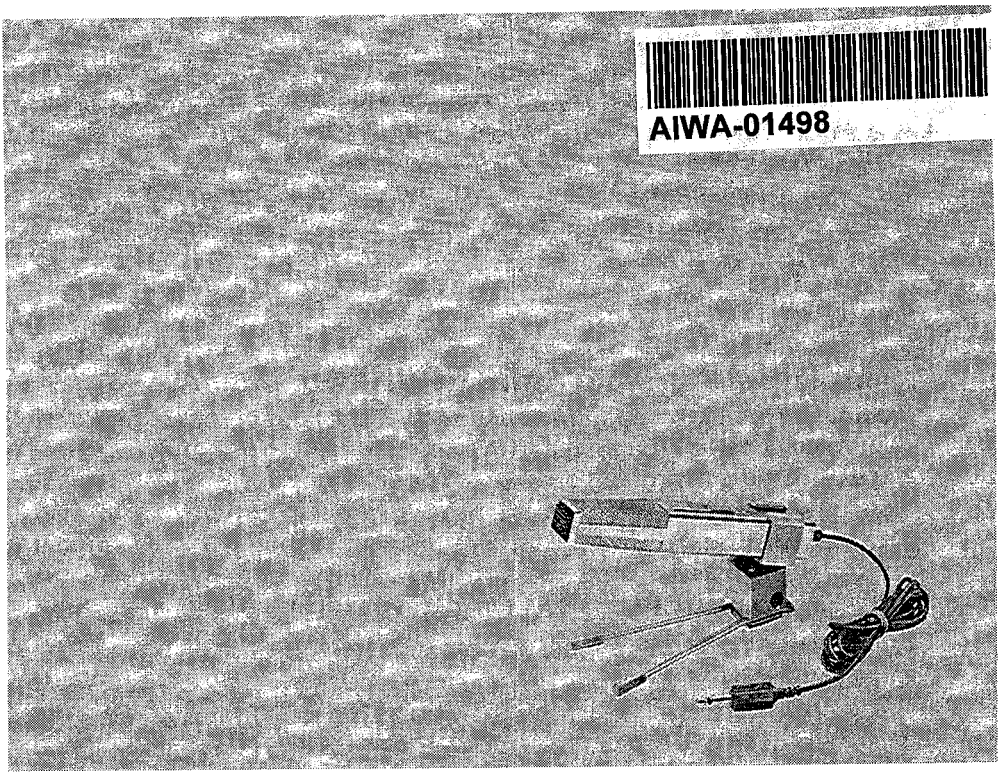
AIWA-01498



ELECTRET CONDENSER ZOOM MICROPHONE CM-Z3

OPERATING INSTRUCTIONS

AIWA®

Thank you for purchasing this high-quality AIWA microphone. The CM-Z3 combines two cardioid microphone units in a compact housing, allowing both directional pattern and sensitivity to be varied according to the sound source. The CM-Z3 is recommended for a wide range of recording applications and is especially useful in combination with 8 mm or portable video cameras, outdoor use, meetings, lectures or stage performances.

WHAT IS A "ZOOM" MICROPHONE?

Previous types of microphone units, such as cardioid or omnidirectional have been specifically designed for work with a limited type of applications. This new microphone from AIWA enables the user to vary directional pattern from cardioid to a narrow polar pattern, performed electronically by means of sensitivity compensation. The slide volume control may thus be used to continously adjust both sensitivity and directional pattern to achieve the desired effect, making the sound source appear to become more close distance or to pick up a wider sound pattern.

This is particularly useful for picking up a specific sound while avoiding ambient background noise. In the WIDE position cardioid pickup is emphasized, whereas in the ZOOM position the microphone assumes a narrow directivity.

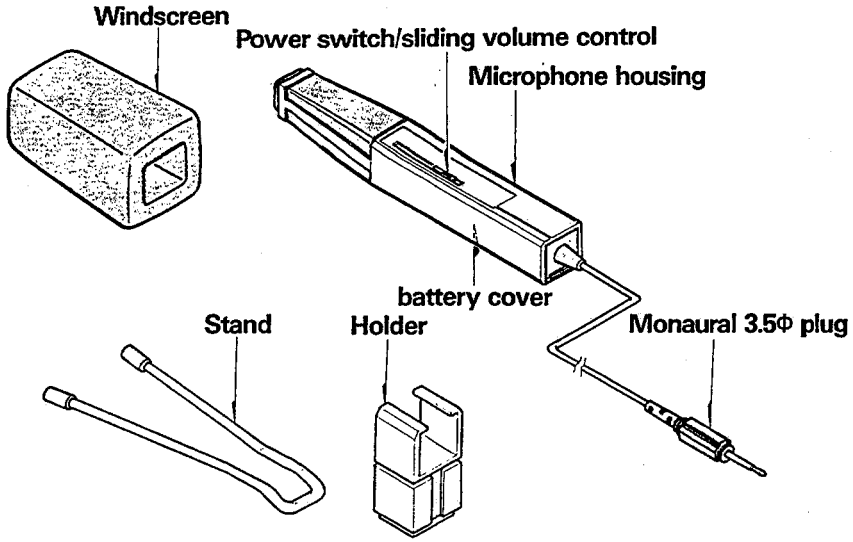
MAIN FEATURES

- **Continuously variable sensitivity and directional pattern.**
- **Compact, lightweight design with smart styling. Mic holder enables camera mount, table stand or hand-held use.**
- **Windscreen supplied for outdoor use.**
- **Remote control RECORD or PLAY pause switching possible with AIWA brand microcassette recorders (TP-M10, TP-M15, etc).**

PRECAUTIONS BEFORE USE

- Be sure to avoid storing where unit is exposed to dust, high heat or excessive humidity.
- Do not use in areas where unit might come into contact with water.
- If utilized in proximity to a loudspeaker, a high-pitched "howling" noise may be produced. If this should occur, change microphone position or increase distance between mic and speaker.

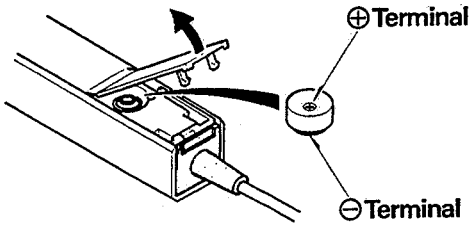
NAMES OF PARTS



POWER SUPPLY

- **Inserting the battery**

1) Open the battery case cover located on the side of the housing.
2) Insert the provided MR-44 mercury battery, making sure the ⊕ contact faces upwards. Then close the cover.
(If battery is inserted with polarity reversed, cover will not close.)



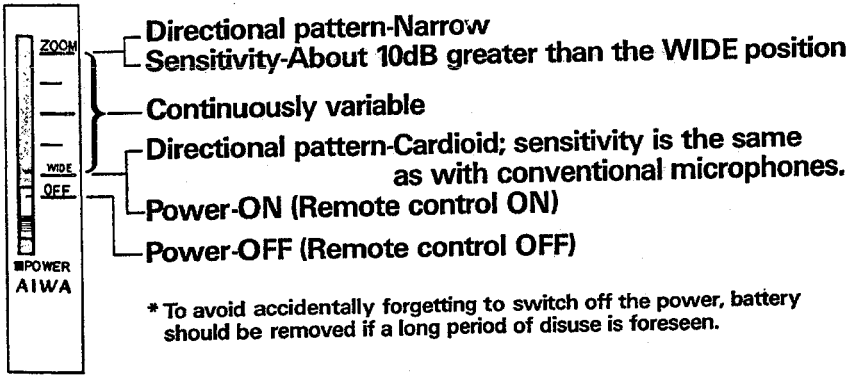
- **Replacing the battery**

The MR-44 mercury battery has a continuous life of approximately 200 hours. However when the charge becomes exhausted sound quality will worsen and sensitivity will decrease. At that time, replacement is recommended.

OPERATION

1) Insert the microphone's 3.5ϕ plug into the MIC jack on the recorder being used.
   * If the recorder is equipped with a 6.3ϕ standard jack, an optional converter plug such as AIWA's CW-132S may be used.
2) Set the power switch to ON (in the WIDE position) and adjust the volume level on the recorder.
3) Position the slide volume control as desired.
   * In the zoom position directional pattern becomes narrower, improving sensitivity. If sensitivity becomes too acute, however, distortion may occur. In such case, readjust recording levels on the recorder as needed.
4) Always be sure to turn microphone control to OFF position after use.

POWER SWITCH/VOLUME ADJUSTOR



* To avoid accidentally forgetting to switch off the power, battery should be removed if a long period of disuse is foreseen.

* AIWA brand microcassette recorders (TP-M10, TP-M15, etc) may be remotely switched on and off by the power switch on the CM-Z3.

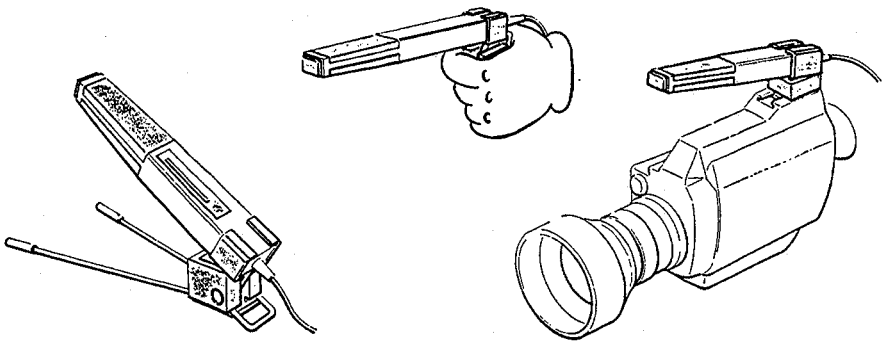
HOLDER

Examples of use

Tabletop use

Hand held microphone

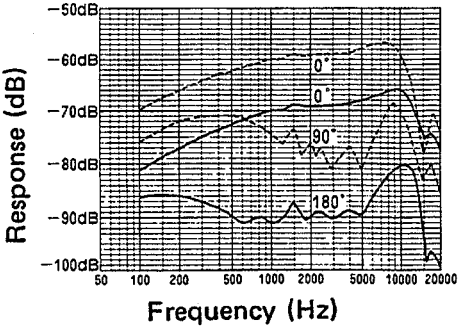
With video camera unit



WHEN TO USE THE WINDSCREEN

The windscreen is effective in reducing noise created by the presence of wind, or "pop" noises when held close to the mouth of a speaker. If desired the windscreen may be kept on the microphone at all times.

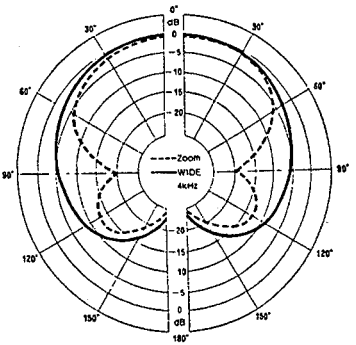
FREQUENCY RESPONSE



---- ZOOM position

——— WIDE position

DIRECTIVITY PATTERN



SPECIFICATIONS

Type	: Electret condenser zoom microphone
Directivity	: Cardioid (WIDE), Narrow directional (ZOOM); (continuously variable)
Sensitivity	: −50±3 dB (WIDE) −40±3 dB (ZOOM) 0 dB = 1V/10μ bar, at 1 kHz (variable)
Frequency response	: 100 ~ 13,000 Hz (WIDE) 100 ~ 11,000 Hz (ZOOM)
Output impedance	: Low
S/N ratio	: Better than 60 dB
Maximum input	: Over 107 dB SPL (WIDE) Over 103 dB SPL (ZOOM)
Standard operating voltage	: 1.35V
Battery life	: Approx. 200 hours
Power supply	: Single 1.35V (MR-44) mercury battery
Cord	: 1.2m length 2ϕ cord with 3.5ϕ plug
External dimensions	: 16(W) x 17.5(D) x 124(L) mm
Weight	: 40g with cord/battery
Accessories	: Stand, Holder, windscreen, mercury battery, carrying bag

* Appearance and specifications are subject to change without prior notice.

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